

Patent Claims

1. Diagonally twisted sole (3) consisting of an undersole (12) and of a midsole bottom (11), the latter being connected to the undersole (12), and various hard inserts (15) being introduced into the undersole (12), and the undersole (12) being closed off by a hard and abrasion-resistant sole bottom (13), wherein a twisted plate (16) is built into the sole (3) consisting of midsole bottom (11), undersole (12) and sole bottom (13), and forms, together with the undersole (12), a midsole (12, 16).
2. Diagonally twisted sole (3) according to Claim 1, wherein the midsole (12, 16) consists of a several parts.
3. Diagonally twisted sole (3) according to Claim 1, wherein the twisted plate (16) is connected to the sole bottom (13), such that the sole bottom (13) has the same twisted form.
4. Diagonally twisted sole (3) according to Claim 1, wherein the twisted plate (16) is connected to the midsole bottom (11), such that the midsole bottom (11) has the same twisted form.
5. Diagonally twisted sole (3) according to Claim 1, wherein the twisted plate (16) has different thicknesses at different places.
6. Diagonally twisted sole (3) according to Claims 1, 2 and 5, wherein, in the heel area (A), between midsole bottom (11) and sole bottom (13), the undersole (12) forms, transverse to the walking direction and to the horizontal (H), an inwardly thickening wedge, and, in the toe area (Z),

5 between midsole bottom (11) and sole bottom (13),
the undersole (12) forms, transverse to the
walking direction and to the horizontal (H), an
outwardly thickening wedge, and the wedge-shaped
configuration from the heel area (A) to the toe
area (Z) merges with a defined profile from one
form into the other.

10 7. Diagonally twisted sole (3) according to Claims 1,
2 and 5, wherein, in the heel area (A), between
midsole bottom (11) and sole bottom (13), the
undersole (12) forms, transverse to the walking
direction and to the horizontal (H), an outwardly
thickening wedge, and, in the toe area (Z),
15 between midsole bottom (11) and sole bottom (13),
the undersole (12) forms, transverse to the
walking direction and to the horizontal (H), an
inwardly thickening wedge, and the wedge-shaped
configuration from the heel area (A) to the toe
20 area (Z) merges with a defined profile from one
form to the other.